Peter JR
Tim JO
Ray RLS
Return to RLS

MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: ST-1 (Deep)

2) PROPOSED LOCATION: (a) General (on or off-site) Off-site

(attach map) Site Area State Land

(b) Sect 32 Twnshp 20S Rng 3E SW ¼ SW ¼ NW ¼ SE ¼

3) WELL PARAMETERS:

(a) Est. total depth 600 (ft) (b) Est. ground elevation @4500 ft

(c) Anticipated stratigraphy:

Alluvium (Santa Fe Group) from 0 ' to TD ' (depth)

_____ from _____ ' to _____ ' (depth)

(d) Anticipated water bearing horizon(s):

Alluvium (Santa Fe Group) at 477 ' (depth)

_____ at _____ ' (depth)

(e) Anticipated static water level 431 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):

To determine groundwater quality deeper in the alluvial aquifer adjacent to monitor well ST-1-473 (ST-1 shallow), located on the upside of the West Boundary Fault.

5) PROPOSED DRILLING PARAMETERS:

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)

Mud Rotary from 0 ' to 100 ' (max)

Air Foam Rotary from 100 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to TD ' (depth)
Core type 6" Dennison from no core ' (depth)
2" Christiansen from ' to ' (depth)

(c) Anticipated drilling additive(s): E-Z mud

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

	Material	Diameter	From	To	Comments
(a) Casing:					
Temporary					
Surface		10"	0	100' max	
Screen (10')	Stainless ++	4"	To be determined from Geophysical logs		0.02"
Completion Pipe	stainless +	4"	0	TD	*

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time
* for deep completions (450 feet or more)
** for shallow completions
\+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel
++ Regular strength screen, extra strength screen used below 450 feet

(b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

8) PROPOSED WELL DEVELOPMENT

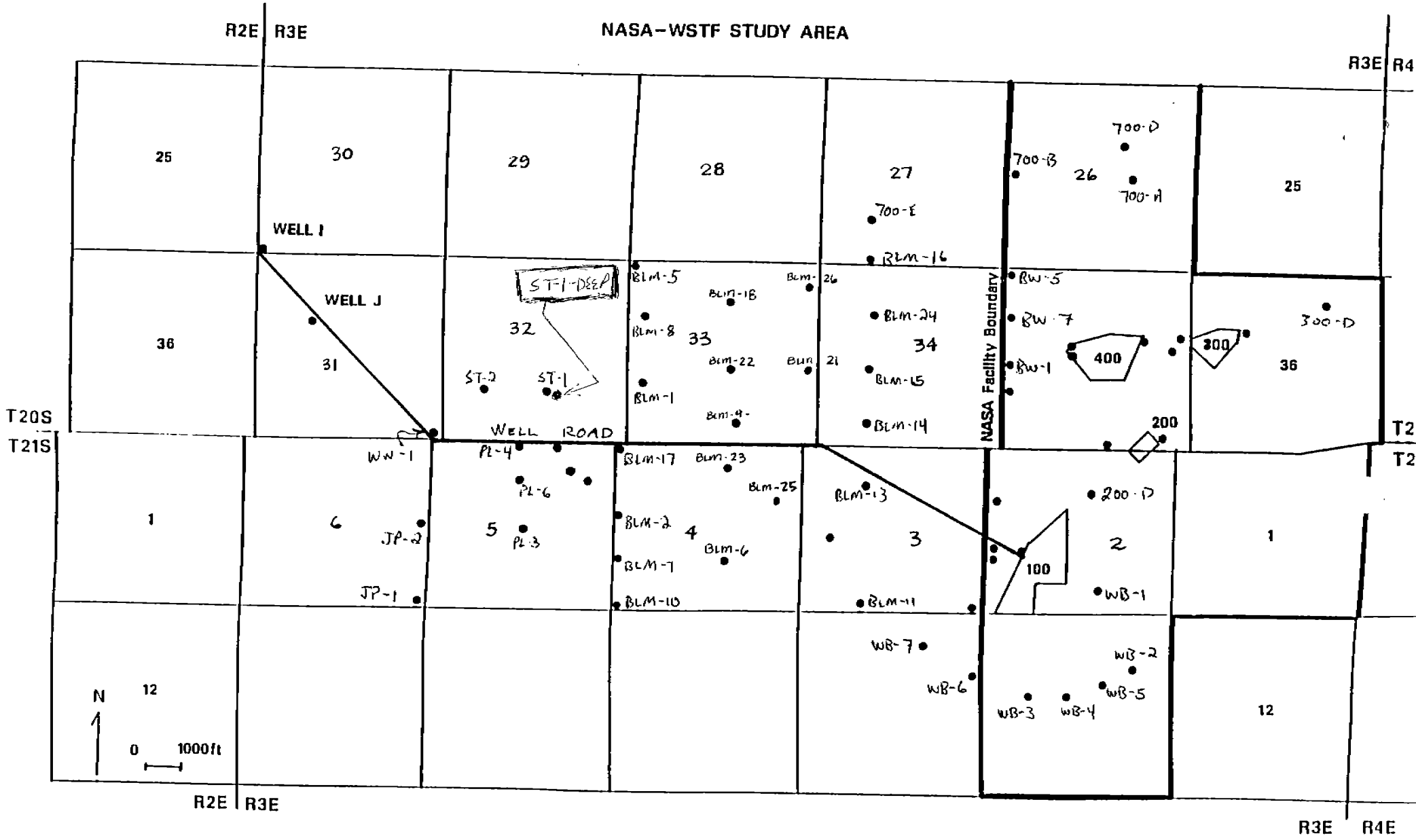
(a) Surge and bail with surge block and bailer.

(b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized William E. Waldrip (name) NASA (representing) (signature)


NASA–WSTF STUDY AREA
R2E R3E
R3E R4
T20S
T21S
T2
T2
25
30
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28
27
26
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36
31
32
33
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36
1
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4
3
2
1
12
12
WELL I
WELL J
ST-1-DEEP
ST-1
ST-2
WELL ROAD
WW-1
PL-4
PL-6
PL-3
JP-2
JP-1
BLM-5
BLM-18
BLM-8
BLM-1
BLM-22
BLM-9
BLM-17
BLM-23
BLM-25
BLM-2
BLM-7
BLM-10
BLM-6
BLM-26
BLM-24
BLM-15
BLM-14
BLM-16
BLM-13
BLM-11
700-E
700-B
700-D
700-H
NASA Facility Boundary
RW-5
RW-7
RW-1
400
300
300-D
200
200-D
100
WB-1
WB-7
WB-6
WB-3
WB-4
WB-5
WB-2
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